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AMERICAN
OSTEOPATHIC
ASSOCIATION

YEARBOOK AND DIRECTORY OF OSTEOPATHIC PHYSICIANS

1986-1987

1986-87 Yearbook and Directory of Osteopathic Physicians

11 FOREWORD

AMERICAN OSTEOPATHIC ASSOCIATION: ORGANIZATION
12 Organizational charts
15 Official roster
17 Departments, bureaus, committees, and councils
23 AOA departments and personnel
25 AOA coming events: planning calendar

DIRECTORY OF OSTEOPATHIC PHYSICIANS
33 Key to symbols
39 Alphabetic list of osteopathic physicians
211 Geographic list of osteopathic physicians, United States
422 List of osteopathic physicians in military service
431 List of osteopathic physicians in US Public Health Service
432 Geographic list of osteopathic physicians, Canada
433 Geographic list of osteopathic physicians, foreign
434 Student members
449 Associate members
450 Certified physicians
475 AONET electronic mail directory

AMERICAN OSTEOPATHIC ASSOCIATION: DOCUMENTS AND DATA
480 AOA basic documents
487 AOA position papers
503 Statistical tables on the osteopathic profession
519 AOA history: dates, events, and people

COMPONENT SOCIETIES
531 Divisional societies
538 Practice affiliates
544 Nonpractice affiliates

550 LICENSURE

PREDOCTORAL EDUCATION
564 Accreditation standards and procedures for colleges of osteopathic medicine
573 Colleges of osteopathic medicine
578 Grants and loans for osteopathic students

POSTDOCTORAL EDUCATION
585 Postdoctoral osteopathic education
587 Protocol for approval of postdoctoral training
590 Intern training program policies and procedures
596 Residency training requirements of the American Osteopathic Association

601 OSTEOPATHIC HOSPITALS

612 OSTEOPATHIC POSTDOCTORAL TRAINING PROGRAMS

638 REQUIREMENTS FOR CERTIFICATION: ADVISORY BOARD FOR OSTEOPATHIC SPECIALISTS AND BOARDS OF CERTIFICATION

653 PROGRAMS SUPPORTED THROUGH THE AOA BUREAU OF RESEARCH

660 LIBRARIES IN OSTEOPATHIC HOSPITALS

661 WRITING AWARDS

664 CONTINUING MEDICAL EDUCATION

OSTEOPATHIC TERMINOLOGY
670 Osteopathic terminology for coding
672 Glossary of osteopathic terminology

AOA MEMBERSHIP BENEFITS AND SPECIAL DUES RATES

685 Membership benefits: a message to DOs from the Committee on Membership
687 Special AOA dues rates: an explanation
688 AOA-sponsored insurance programs
690 Physician placement service

OSTEOPATHIC LITERATURE AND INFORMATION

692 Osteopathic literature in print
694 AOA items available

INDEXES

696 Advertisers' index
697 Index

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Statistical tables on the osteopathic profession

See individual tables for dates and sources

GEOGRAPHIC DISTRIBUTION OF LISTED DOs

Location	Number of Members	Number of Nonmembers	Total
Alabama	25	23	48
Alaska	20	9	29
Arizona	602	115	717
Arkansas	27	21	48
California	475	252	727
Colorado	272	124	396
Connecticut	22	36	58
Delaware	59	33	92
District of Columbia	13	6	19
Florida	1,301	337	1,638
Georgia	163	59	222
Hawaii	22	20	42
Idaho	19	21	40
Illinois	561	241	802
Indiana	234	66	300
Iowa	418	254	672
Kansas	225	95	320
Kentucky	40	35	75
Louisiana	12	16	28
Maine	242	67	309
Maryland	32	36	68
Massachusetts	83	88	171
Michigan	3,187	368	3,555
Minnesota	47	36	83
Mississippi	42	8	50
Missouri	1,122	399	1,521
Montana	12	22	34
Nebraska	12	15	27
Nevada	45	18	63
New Hampshire	13	6	19
New Jersey	983	461	1,444
New Mexico	95	59	154
New York	465	334	799
North Carolina	39	28	67
North Dakota	2	8	10
Ohio	1,751	390	2,141
Oklahoma	769	109	878
Oregon	171	83	254
Pennsylvania	2,288	964	3,252
Rhode Island	79	31	110
South Carolina	20	14	34
South Dakota	21	13	34
Tennessee	65	37	102
Texas	1,111	475	1,586
Utah	10	12	22
Vermont	10	22	32
Virginia	71	33	104
Washington	181	117	298
West Virginia	165	51	216
Wisconsin	202	85	287
Wyoming	9	6	15
Total USA	17,854	6,158	24,012
Military Service	658	593	1,251
US Public Health Service	62	54	116
US Territories	2	0	2
Canada	7	38	45
Foreign	28	25	53
Totals for Others	757	710	1,467
Grand Totals	18,611	6,868	25,479

Source: AOA Physician Masterfile, 1 Aug 1986.

DISTRIBUTION OF DOs LISTED BY MAJOR PROFESSIONAL ACTIVITY

State	Total	Internship	Residency	Other Postdoctoral Training[1]	Office	Hospital
Alabama	48	0	1	0	33	3
Alaska	29	0	0	0	19	1
Arizona	717	36	22	11	453	29
Arkansas	48	0	0	1	27	2
California	727	29	5	26	409	18
Colorado	396	14	7	2	276	11
Connecticut	58	1	0	6	24	3
Delaware	92	5	0	3	50	5
District of Columbia	19	0	1	5	3	0
Florida	1,638	95	34	23	959	39
Georgia	222	6	2	4	148	7
Hawaii	42	0	0	1	26	0
Idaho	40	0	0	0	22	0
Illinois	802	62	35	60	323	32
Indiana	300	17	2	3	209	7
Iowa	672	24	18	25	382	14
Kansas	320	10	7	13	211	12
Kentucky	75	0	0	1	54	4
Louisiana	28	0	1	1	6	2
Maine	309	19	11	1	166	18
Maryland	68	0	0	8	27	5
Massachusetts	171	2	1	11	91	13
Michigan	3,555	249	303	63	1,995	147
Minnesota	83	0	0	5	50	0
Mississippi	50	0	0	0	32	4
Missouri	1,521	75	43	18	915	68
Montana	34	0	0	0	22	0
Nebraska	27	0	1	2	8	2
Nevada	63	0	0	2	46	0
New Hampshire	19	0	0	0	9	1
New Jersey	1,444	86	79	36	796	48
New Mexico	154	5	C	2	100	3
New York	799	75	15	48	382	26
North Carolina	67	0	0	1	26	1
North Dakota	10	0	0	0	5	0
Ohio	2,141	165	140	75	1,156	81
Oklahoma	878	65	41	4	530	24
Oregon	254	6	0	3	182	9
Pennsylvania	3,252	203	184	112	1,770	168
Rhode Island	110	4	3	3	65	5
South Carolina	34	0	0	1	14	2
South Dakota	34	0	0	0	22	1
Tennessee	102	0	0	1	74	5
Texas	1,586	68	26	19	1,028	43
Utah	22	0	0	1	13	1
Vermont	32	0	0	0	20	2
Virginia	104	0	0	8	57	2
Washington	298	3	0	3	224	4
West Virginia	216	15	2	2	119	17
Wisconsin	287	14	1	11	189	6
Wyoming	15	0	0	0	10	2
Total for USA	24,012	1,353	985	625	13,777	897
Military Servce	1,251	1	2	122	39	421
US Public Health Service	116	0	0	1	47	18
US territories	2	0	0	0	1	0
Canada	45	0	0	0	26	0
Foreign	53	0	0	0	32	2
Total for Others	1,467	1	2	123	145	441
Grand Totals	25,479	1,354	987	748	13,922	1,338

Source: AOA Physician Masterfile, 1 Aug 1986.
[1]Unapproved postdoctoral training.

Research	Education	Administration	Other	Retired	Inactive	Unknown
0	0	0	0	1	0	10
0	0	0	0	0	1	8
0	1	4	0	77	8	76
0	0	0	0	9	2	7
2	2	3	2	70	7	154
0	0	0	1	22	3	60
0	0	0	0	5	2	17
0	0	0	1	6	1	21
0	1	0	1	1	0	7
0	10	12	6	206	18	236
0	0	0	2	14	1	38
0	0	1	0	4	4	6
0	0	0	0	7	0	11
2	24	11	0	23	1	229
0	0	0	1	10	2	49
0	23	0	0	45	4	137
0	1	0	1	20	3	42
0	0	0	0	6	0	10
0	1	0	0	2	2	13
0	2	3	0	32	3	54
0	0	2	0	4	0	22
0	0	0	0	18	2	33
3	35	33	2	121	22	582
0	0	0	1	8	1	18
0	1	0	0	2	0	11
0	34	9	6	80	10	263
0	0	0	0	7	0	5
0	0	0	0	4	2	8
0	1	0	0	4	0	10
0	0	0	0	5	0	4
0	14	9	1	39	3	333
0	0	0	1	11	1	31
1	7	5	2	25	3	210
2	0	0	0	13	2	22
0	0	0	0	0	0	5
1	14	15	2	58	6	428
0	11	6	1	38	5	153
0	1	1	0	24	3	25
2	30	19	6	82	8	668
0	0	0	2	9	0	19
0	0	0	0	6	0	11
0	0	1	0	4	0	6
0	1	1	0	5	0	15
2	35	9	1	67	6	282
0	0	0	0	2	0	5
0	0	0	0	6	0	4
0	0	1	0	9	2	25
0	1	0	0	28	2	33
0	2	2	0	11	0	46
0	0	3	0	14	2	47
0	0	0	0	1	0	2
15	252	150	40	1,265	142	4,511
4	0	45	9	0	0	608
0	0	4	1	0	0	45
0	0	0	0	1	0	0
0	0	0	0	11	2	6
0	0	0	0	12	0	7
4	0	49	10	24	2	666
19	252	199	50	1,289	144	5,177

GEOGRAPHIC DISTRIBUTION OF LISTED DOs BY AGE

Location	Total DOs	Avg age	Under 35(%)	35-44(%)	45-54(%)	55-64(%)	65 & over(%)	Unknown(%)
Alabama	48	40	11(22.9)	30(62.5)	3(6.3)	1(2.1)	3(6.3)	
Alaska	29	41	8(27.6)	15(51.7)	3(10.3)	2(6.9)		1(3.4)
Arizona	717	49	174(24.3)	191(26.6)	117(16.3)	84(11.7)	141(19.7)	10(1.4)
Arkansas	48	53	12(25.0)	16(33.3)	1(2.1)	1(2.1)	17(35.4)	1(2.1)
California	727	47	211(29.0)	254(34.9)	72(9.9)	42(5.8)	132(18.2)	16(2.2)
Colorado	396	47	94(23.7)	121(30.6)	63(15.9)	52(13.1)	63(15.9)	3(.8)
Connecticut	58	53	20(34.5)	12(20.7)	2(3.4)		19(32.8)	5(8.6)
Delaware	92	44	28(30.4)	26(28.3)	14(15.2)	16(17.4)	7(7.6)	1(1.1)
District of Columbia	19	40	11(57.9)	3(15.8)	1(5.3)	3(15.8)	1(5.3)	
Florida	1,638	50	391(23.9)	376(23.0)	249(15.2)	243(14.8)	349(21.3)	30(1.8)
Georgia	222	46	58(26.1)	79(35.6)	28(12.6)	16(7.2)	41(18.5)	
Hawaii	42	54	9(21.4)	7(16.7)	6(14.3)	7(16.7)	12(28.6)	1(2.4)
Idaho	40	54	6(15.0)	15(37.5)	3(7.5)	2(5.0)	13(32.5)	1(2.5)
Illinois	802	42	358(44.6)	248(30.9)	60(7.5)	42(5.2)	66(8.2)	28(3.5)
Indiana	300	48	61(20.3)	92(30.7)	47(15.7)	47(15.7)	43(14.3)	10(3.3)
Iowa	672	47	207(30.8)	209(31.1)	58(8.6)	68(10.1)	114(17.0)	16(2.4)
Kansas	320	50	69(21.6)	111(34.7)	28(8.8)	34(10.6)	64(20.0)	14(4.4)
Kentucky	75	51	18(24.0)	19(25.3)	5(6.7)	16(21.3)	14(18.7)	3(4.0)
Louisiana	28	44	14(50.0)	7(25.0)		1(3.6)	5(17.9)	1(3.6)
Maine	309	51	79(25.6)	75(24.3)	39(12.6)	23(7.4)	80(25.9)	13(4.2)
Maryland	68	45	28(41.2)	22(32.4)	1(1.5)	1(1.5)	13(19.1)	3(4.4)
Massachusetts	171	59	22(12.9)	38(22.2)	14(8.2)	8(4.7)	82(48.0)	7(4.1)
Michigan	3,555	45	1,147(32.3)	917(25.8)	608(17.1)	512(14.4)	305(8.6)	66(1.9)
Minnesota	83	50	22(26.5)	23(27.7)	10(12.0)	3(3.6)	24(28.9)	1(1.2)
Mississippi	50	39	18(36.0)	25(50.0)	3(6.0)	1(2.0)	3(6.0)	
Missouri	1,521	49	394(25.9)	393(25.8)	199(13.1)	152(10.0)	348(22.9)	35(2.3)
Montana	34	55	4(11.8)	13(38.8)	3(8.8)		13(38.2)	1(2.9)
Nebraska	27	55	9(33.3)	5(18.5)	2(7.4)		10(37.0)	1(3.7)
Nevada	63	49	14(22.2)	19(30.2)	8(12.7)	7(11.1)	14(22.2)	1(1.6)
New Hampshire	19	63		5(26.3)	1(5.3)	1(5.3)	12(63.2)	
New Jersey	1,444	44	509(35.2)	370(25.6)	243(16.8)	164(11.4)	125(8.7)	33(2.3)
New Mexico	154	50	35(22.7)	38(24.7)	26(16.9)	13(8.4)	41(26.6)	1(.6)
New York	799	46	295(36.9)	162(20.3)	103(12.9)	93(11.6)	118(14.8)	28(3.5)
North Carolina	67	54	20(29.9)	12(17.9)	1(1.5)	6(9.0)	27(40.3)	1(1.5)
North Dakota	10	49	3(30.0)	4(40.0)			2(20.0)	1(10.0)
Ohio	2,141	43	793(37.0)	590(27.6)	269(12.6)	272(12.7)	182(8.5)	35(1.6)
Oklahoma	878	44	299(34.1)	260(29.6)	122(13.9)	73(8.3)	112(12.8)	12(1.4)
Oregon	254	50	42(16.5)	85(33.5)	35(13.8)	31(12.2)	57(22.4)	4(1.6)
Pennsylvania	3,252	43	1,206(37.1)	907(27.9)	407(12.5)	361(11.1)	338(10.4)	33(1.0)
Rhode Island	110	50	27(24.5)	27(24.5)	13(11.8)	17(15.5)	23(20.9)	3(2.7)
South Carolina	34	47	9(26.5)	12(35.3)	1(2.9)	5(14.7)	7(20.6)	
South Dakota	34	55	7(20.6)	7(20.6)	5(14.7)	1(2.9)	13(38.2)	1(2.9)
Tennessee	102	53	15(14.7)	31(30.4)	10(9.8)	17(16.7)	25(24.5)	4(3.9)
Texas	1,586	48	357(22.5)	502(31.7)	215(13.6)	236(14.9)	246(15.5)	30(1.9)
Utah	22	53	2(9.1)	8(36.4)	3(13.6)	1(4.5)	8(36.4)	
Vermont	32	63	2(6.3)	5(15.6)	4(12.5)	2(6.3)	19(59.4)	
Virginia	104	47	41(39.4)	25(24.0)	4(3.8)	7(6.7)	23(22.1)	4(3.8)
Washington	298	49	55(18.5)	101(33.9)	43(14.4)	44(14.8)	50(16.8)	5(1.7)
West Virginia	216	44	74(34.3)	76(35.2)	18(8.3)	11(5.1)	34(15.7)	3(1.4)
Wisconsin	287	47	73(25.4)	93(32.4)	35(12.2)	36(12.5)	44(15.3)	6(2.1)
Wyoming	15	45	4(26.7)	4(26.7)	2(13.3)	4(26.7)	1(6.7)	
Total for USA	24,012	46	7,365(30.7)	6,685(27.8)	3,207(13.4)	2,779(11.6)	3,503(14.6)	473(2.0)
Military Service	1,251	38	614(49.1)	459(36.7)	86(6.9)	58(4.6)	18(1.4)	16(1.3)
US Public Health Service	116	38	59(50.9)	38(32.8)	9(7.8)	7(6.0)		3(2.6)
US Territories	2	67				1(50.0)	1(50.0)	
Canada	45	72	2(4.4)	1(2.2)		2(4.4)	40(88.9)	
Foreign	53	66	4(7.5)	4(7.5)	7(13.2)	5(9.4)	31(58.5)	2(3.8)
Total for Others	1,467	40	679(46.3)	502(34.2)	102(7.0)	73(5.0)	90(6.1)	21(1.4)
Grand Totals	25,479	46	8,044(31.6)	7,187(28.2)	3,309(13.0)	2,852(11.2)	3,593(14.1)	494(1.9)

Source: AOA Physician Masterfile, 1 Aug 1986.

DISTRIBUTION OF DOs BY SPECIALTY & AGE—EXCLUDING INTERNS AND RESIDENTS

Specialty	Total	Under 35	35-44	45-54	55-64	65 & Over	Unknown
Adolescent Medicine (ADL)	8	3	2	1	1	1	
Allergy and Immunology (AI)	33	3	15	4	10		1
Aerospace and Preventive Med (AM)	103	54	29	16	4		
Anesthesiology (AN)	527	98	166	131	95	31	6
Angiography and Interventional Rad (ANG)	3		1		2		
Anatomic Pathology (AP)	21		4	9	7	1	
Anatomic Pathology and Lab Med (APL)	9		2	1	3	3	
Cardiology (C)	171	35	103	16	6	6	5
Critical Care Medicine (CCM)	13	4	8	1			
Child Psychiatry (CHP)	2		1	1			
Cardiovascular Surgery (CVS)	8		5	3			
Dermatology (D)	107	24	43	23	8	9	
Diagnostic Radiology (DR)	80	16	39	13	5	5	2
Diagnostic Ultrasound (DUS)	2		1	1			
Emergency Medicine (EM)	755	286	375	49	21	8	16
Endocrinology (END)	27	8	6	4	1	8	
Forensic Pathology (FOP)	32	6	9	9	5	3	
Gastroenterology (GE)	82	18	45	14	2	3	
Geriatrics (GER)	51	5	11	7	14	14	
Gynecologic Oncology (GO)	3		1	2			
General Practice (GP)	9,376	1,590	2,709	1,742	1,703	1,525	107
Gynecological Surgery (GS)	6		3	3			
Gynecology (GYN)	3	1	1	1			
Hematology (HEM)	10	1	7	2			
Hematology and Oncology (HEO)	16		14	2			
Hand Surgery (HS)	3	1	1	1			
Infectious Disease (ID)	12	4	5	2	1		
Internal Medicine (IM)	790	180	337	136	72	59	6
Laboratory Medicine (LBM)	10	1	5	1	2	1	
Medical Diseases of the Chest (MDC)	59	16	32	8	2		1
Maternal and Fetal Medicine (MFM)	5		3	2			
Neurology (N)	108	29	57	16	4	1	1
Neonatology (NE)	14	3	8	3			
Nephrology (NEP)	38	10	23	5			
Nuclear Medicine (NM)	20	1	11	4	4		
Neurology and Psychiatry (NP)	10		1	3	3	3	
Nuclear Radiology (NR)	4	4					
Neurological Surgery (NS)	25	6	12	2	4	1	
Obstetrics and Gynecology (OBG)	211	24	112	43	20	11	1
Obstetrics (OBS)	2			1	1		
Obstetrics and Gynecological Surgery (OGS)	173	32	86	33	20	2	
Occupational and Preventive Medicine (OM)	73	10	24	18	13	7	1
Osteopathic Manipulative Treatment (OMT)	407	31	60	25	69	217	5
Oncology (ON)	52	7	33	11	1		
Otorhinolaryngology and Oro-Facial Plastic Surgery (OOP)	81	13	44	16	6		2
Ophthalmology (OPH)	195	27	74	34	22	37	1
Oro-facial Plastic Surgery (OPL)	5	1	4				
Orthopedics (OR)	22	3	11	4	4		
Orthopedic Surgery (ORS)	319	51	153	74	27	10	4
Other Specialty (OS)	243	79	60	33	41	29	1
Otolaryngology (OTL)	12	5	3	4			
Otorhinolaryngology (OTR)	56	8	21	16	5	4	2

DISTRIBUTION OF DOs BY SPECIALTY & AGE—EXCLUDING INTERNS AND RESIDENTS

Specialty	Total	Under 35	35-44	45-54	55-64	65 & Over	Unknown
Psychiatry (P)	299	38	92	78	57	30	4
Pediatrics (PD)	306	71	151	48	19	12	5
Pediatric Cardiology (PDC)	1		1				
Pediatric Neurology (PDN)	5	1	3	1			
Pediatric Psychiatry (PDP)	21	3	12	6			
Pediatric Hematology/Oncology (PHO)	1			1			
Public Health and Preventive Med (PHP)	34	12	5	9	3	4	1
Pediatric Infectious Diseases (PID)	2		2				
Plastic and Reconstructive Surgery (PLR)	17	4	9	4			
Proctology (PR)	44	2	1	6	15	19	1
Pathology (PTH)	114	9	43	31	21	10	
Pulmonary Conditions (PUL)	24		22	2			
Peripheral Vascular Surgery (PVS)	12	2	7	3			
Psychosomatic Medicine (PYM)	1				1		
Radiology (R)	385	29	112	129	94	18	3
Reproductive Endocrinology (RE)	2		2				
Rheumatology (RHU)	31	4	18	2	5	2	
Rehabilitation Medicine (RM)	95	19	34	15	12	14	1
Radiation Oncology (RO)	11	4	4	2	1		
Roentgenology (RT)	1				1		
Diagnostic Roentgenology (RTD)	25		7	8	6	4	
Surgery—General (S)	451	39	134	131	97	47	3
Sclerotherapy (SCL)	9		1		1	7	
Sports Medicine (SM)	23	5	9	4	2	2	1
Thoracic Cardiovascular Surgery (TCV)	16	4	8	3	1		
Radiation Therapy (TR)	9	1	7		1		
Thoracic Surgery (TS)	20	3	4	9	3	1	
Urology (U)	10		2	1	5	1	1
Urological Surgery (URS)	88	12	44	25	5	2	
Unknown	5,936	2,582	1,265	225	289	1,414*	161
Grand Totals	22,390	5,542	6,779	3,293	2,847	3,586	343

* Includes 1,289 retired DOs

Of the 16,454 DOs who report a specialty, 57% (9,376) report they are General Practitioners. The percentages by age group are as follows:

Under 35 — 53.7%
35-44 — 49.1%
45-54 — 56.8%
55-64 — 66.6%
Over 65 — 70.2%

Source: AOA Physician Masterfile, 1 Aug 1986.

GEOGRAPHIC DISTRIBUTION OF DOs BY CENSUS DIVISION

Region	Count
Foreign	53
New England (CT, MA, ME, NH, RI, VT)	723
Middle Atlantic (NJ, NY, PA)	5,653
East North Central (IL, IN, MI, OH, WI)	7,169
West North Central (IA, KS, MN, MO, ND, NE, SD)	2,736
South Atlantic (DC, DE, FL, GA, MD, NC, SC, VA, WV)	2,784
East South Central (AL, KY, MS, TN)	323
West South Central (AR, LA, OK, TX)	2,792
Mountain (AZ, CO, ID, MT, NM, NV, UT, WY)	1,559
Pacific (AK, CA, HI, OR, WA)	1,640
US Territories	2
Canada	45
Total	25,479

Source: AOA Physician Masterfile, 1 Aug 1986.

NUMBERS OF CURRENT OSTEOPATHIC CERTIFICATIONS

Area of certification	Number
Anesthesiology	227
Dermatology	58
Emergency medicine	108
Fellows of AAO	85
General practice	2,582
Internal medicine	695
Allergy and immunology	8
Cardiology	110
Endocrinology	13
Gastroenterology	43
Hematology	4
Hematology and oncology	13
Infectious diseases	8
Medical diseases of the chest	58
Nephrology	25
Oncology	25
Rheumatology	18
Neurology and psychiatry	4
Neurology	34
Pediatric neurology	1
Psychiatry	96
Pediatric psychiatry	4
Nuclear medicine	80
Obstetrics and gynecology	41
Obstetrical-gynecological surgery	139
Ophthalmology	114
Otolaryngology	17
Otorhinolaryngology	132
Oro-facial plastic surgery	67
Orthopedic surgery	193
Pathology	
Anatomic pathology	119
Cytopathology	1
Forensic pathology	1
Laboratory medicine	105
Pediatrics	161
Neonatology	9
Proctology	72
Public health and preventive medicine	12
Preventive medicine and aerospace medicine	17
Preventive medicine and occupational medicine	22
Occupational/environmental medicine	13
Radiology	313
Diagnostic radiology	68
Diagnostic roentgenology	40
Radiation therapy	3
Roentgenology	28
Rehabilitation medicine	82
Surgery	
General surgery	398
Neurological surgery	17
Plastic and reconstructive surgery	3
Thoracic surgery	28
Thoracic cardiovascular surgery	4
Urological surgery	59
Total	6,566

Some physicians may hold more than one certification. Thus, the figures do not reflect the total number of individuals holding certification except in a given category.

Further, the figures do not accurately reflect type of practice. Besides the number certified in general practice, for example, a majority of non-certified DOs are also engaged in this field. Besides those listed for a given specialty, there are DOs whose nonosteopathic or informal training has prepared them for specialty practice. The total number of certified DOs is 5,600.

Source: AOA Dept. of Education, 10 Jul 1986.

GROWTH OF THE OSTEOPATHIC PROFESSION, 1935-86

Year	Total listed DOs	Percent growth over previous year	No. listed AOA members	Percent AOA members	No. listed nonmembers	New† graduates	Percent new graduates
1935	8,724	—	4,050	46	4,674	459	5
1936	8,995	3	4,616	51	4,379	431	5
1937	9,075	1	5,112	56	3,963	403	4
1938	9,404	3	5,446	58	3,958	440	5
1939	9,635	2	5,123	53	4,512	451	5
1940	9,950	3	5,280	53	4,670	447	4
1941	10,022	1	5,537	55	4,485	499	5
1942	10,377	3	6,047	58	4,330	458	4
1943	10,643	2	6,203	58	4,440	292	3
1944	10,910	2	6,868	63	4,042	201	2
1945	11,067	1	7,277	66	3,790	103	1
1946	11,180	—	7,557	68	3,623	213	2
1947	11,239	1	7,870	70	3,369	177	2
1948	11,270	—	7,979	71	3,291	143	1
1949	11,233	—	7,660	68	3,573	202	2
1950	11,250	—	7,753	69	3,497	373	3
1951	11,400	1	8,003	70	3,397	427	4
1952	11,583	2	8,241	71	3,342	427	4
1953	11,827	2	8,320	70	3,507	462	4
1954	12,118	2	8,563	71	3,555	449	4
1955	12,371	2	8,909	72	3,462	459	4
1956	12,634	2	9,226	73	3,408	467	4
1957	12,945	2	9,544	74	3,401	442	3
1958	13,189	2	9,856	75	3,333	439	3
1959	13,407	2	10,088	75	3,319	467	3
1960	13,708	2	10,484	76	3,224	427	3
1961	13,923	2	10,769	77	3,154	506	4
1962	14,254	2	9,357	66	4,897	363	3
1963	12,288*	—	9,164	75	3,124	367	3
1964	12,288	—	9,153	74	3,135	355	3
1965	12,441	1	9,363	75	3,078	394	3
1966	12,638	2	9,611	76	3,027	360	3
1967	12,799	1	9,794	77	3,005	405	3
1968	13,023	2	10,053	77	2,970	427	3
1969	13,252	2	10,357	78	2,895	427	3
1970	13,454	2	10,581	79	2,873	432	3
1971	13,618	1	10,630	78	2,988	473	3
1972	13,800	1	10,834	79	2,966	483	3
1973	14,089	2	11,074	79	3,015	649	5
1974	14,551	3	11,453	79	3,098	591	4
1975	14,929	3	11,730	79	3,199	698	5
1976	15,572	4	12,047	77	3,525	814	5
1977	16,175	4	12,828	79	3,347	892	6
1978	17,036	5	13,624	80	3,412	965	6
1979	17,975	5	14,424	80	3,551	1,003	6
1980	18,820	4	14,419	77	4,401	1,032	5
1981	19,686	4	15,396	78	4,290	1,128	6
1982	20,559	4	16,053	78	4,506	1,040	5
1983	21,618	5	16,080	74	5,538	1,317	6
1984	22,746	5	17,236	75	5,510	1,300	6
1985	24,014	5	18,064	75	5,950	1,474	6
1986	25,479	6	18,611	73	6,868	1,667	7

*Between 1963 and 1970, 2,395 DOs accepted unearned MD degrees from the California College of Medicine and were removed from AOA's statistical reckoning.

†In 1935, there were 8 osteopathic colleges producing graduates; by 1963 there were only 5. In the period between 1973 and 1985, the number of colleges graduating students increased from 6 to 15.

Source: AOA Physician Masterfile, 1 Aug 1986.

GROWTH OF OSTEOPATHIC INTERN TRAINING PROGRAMS 1981-1982 TO 1986-1987

State	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	Percentage of Growth
Arizona	26	30	38	39	39	40	+ 54
California	25	25	29	33	43	64	+156
Colorado	14	16	19	19	19	19	+ 36
Delaware	5	5	6	6	6	6	+ 20
Florida	64	68	81	94	111	125	+ 95
Georgia	10	10	10	10	10	10	+ 0
Illinois	46	46	46	50	59	86	+ 87
Indiana	12	14	14	17	17	17	+ 42
Iowa	28	28	28	28	28	28	+ 0
Kansas	12	12	12	12	12	12	+ 0
Maine	14	16	16	18	18	19	+ 36
Massachusetts	—*	2	2	2	4	4	+ 0
Michigan	270	270	278	288	280	292	+ 8
Missouri	76	80	88	91	95	96	+ 26
New Jersey	62	69	78	99	98	98	+ 58
New Mexico	4	4	4	6	6	6	+ 50
New York	32	42	67	89	94	110	+244
Ohio	149	159	160	182	183	188	+ 26
Oklahoma	70	70	71	71	71	76	+ 8
Oregon	7	7	7	7	7	7	+ 0
Pennsylvania	153	170	182	195	201	216	+ 41
Rhode Island	5	7	7	7	7	7	+ 40
Texas	42	46	47	57	68	74	+ 76
Washington	4	4	4	4	4	4	+ 0
West Virginia	—*	—*	—*	6	20	20	+ 0
Wisconsin	15	19	19	19	19	19	+ 27
Totals	1,145	1,218	1,313	1,449	1,519	1,643	+ 43

* Not applicable.
Source: AOA Department of Education, 1 Aug 1986.

OSTEOPATHIC INTERNS IN FEDERAL TRAINING PROGRAMS

Branch of service	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	Percentage of Growth
Air Force	8	8	18	6	14	5	− 37%
Army	43	50	42	37	36	21	− 52%
Navy	21	29	26	18	23	17	− 19%
US Public Health Service	20	0	0	0	0	0	0
Totals	92	87	86	61	73	43	− 53%

Source: AOA Department of Education, 1 Aug 1986.

AOA-APPROVED RESIDENCY POSITIONS IN OSTEOPATHIC HOSPITALS, 1982-1983 TO 1986-1987

Specialty areas	1982-83	1983-84	1984-85	1985-86	1986-87
Aerospace medicine	—*	—*	—*	—*	—*
Anesthesiology	123	119	119	119	118
Angiography/interventional radiology	2	2	2	2	2
Cardiology	20	16	20	21	21
Clinical allergy and immunology	0	0	0	0	0
Dermatology	2	2	2	2	2
Diagnostic radiology	40	40	47	52	49
Diagnostic ultrasound	—*	—*	1	1	1
Emergency medicine	48	50	48	56	70
Endocrinology	1	1	1	1	1
Gastroenterology	12	12	13	15	16
General practice	197	220	263	284	325
Hematology	9	9	6	6	6
Hematology/oncology	—*	—*	4	4	4
Infectious diseases	2	2	2	1	1
Internal medicine	318	335	349	346	349
Medical diseases of the chest	17	17	18	17	17
Neonatal medicine	—*	—*	—*	2	2
Nephrology	8	10	10	10	10
Neurology	13	13	9	13	15
Neuroradiology	—*	—*	1	1	1
Nuclear medicine	3	4	3	3	3
Nuclear radiology	—*	—*	1	1	1
Obstetrics and gynecological surgery	101	112	121	122	122
Occupational medicine	—*	—*	—*	—*	—*
Oncology	3	3	0	0	0
Ophthalmology	30	30	36	38	40
Orthopedic surgery	118	124	123	125	126
Osteopathic manipulative medicine	6	6	8	15	18
Otorhinolaryngology	10	10	10	6	6
Otorhinolaryngology and oro-facial plastic surgery	34	38	42	48	52
Pathology	44	44	43	41	45
Pediatrics	76	73	72	73	68
Proctology	13	13	12	10	10
Psychiatry	9	21	24	32	36
Psychiatry, child	2	4	4	4	4
Public health	—*	—*	—*	—*	3
Radiation oncology	2	2	2	1	1
Radiological imaging	—*	—*	—*	0	0
Radiology	81	81	75	55	56
Reproductive endocrinology	—*	—*	—*	0	0
Rehabilitation medicine	4	4	7	7	5
Rheumatology	1	1	1	1	1
Surgery, general	205	216	213	207	209
Surgery, general vascular	—*	—*	—*	2	8
Surgery, neurological	10	13	13	13	13
Surgery, thoracic and cardiovascular	7	9	9	9	9
Surgery, urological	29	32	35	33	35
Totals	1,600	1,688	1,767	1,799	1,885

*Not applicable.
Source: AOA Department of Education, 1 Aug 1986.

RESIDENTS IN AOA-APPROVED OSTEOPATHIC TRAINING PROGRAMS, 1982-1983 TO 1986-1987

Specialty areas	1982-83	1983-84	1984-85	1985-86	1986-87
Aerospace medicine	—*	—*	—*	—*	—*
Anesthesiology	50	64	86	88	74
Angiography/interventional radiology	1	1	0	0	0
Cardiology	14	12	12	12	9
Clinical allergy and immunology	0	0	0	0	0
Dermatology	1	1	1	1	1
Diagnostic radiology	29	21	18	33	27
Diagnostic ultrasound	—*	—*	0	0	1
Emergency medicine	36	37	43	45	50
Endocrinology	0	0	0	0	0
Gastroenterology	10	9	9	10	8
General practice	103	106	148	195	200
Hematology	1	2	2	0	0
Hematology/oncology	—*	—*	1	1	1
Infectious diseases	0	0	0	0	0
Internal medicine	218	228	261	257	270
Maternal and fetal medicine	—*	—*	—*	—*	0
Medical diseases of the chest	10	12	12	12	7
Neonatal medicine	—*	—*	—*	0	1
Nephrology	0	3	3	1	0
Neurology	5	5	6	6	9
Neuroradiology	—*	—*	0	0	1
Nuclear medicine	1	0	0	0	0
Nuclear radiology	—*	—*	0	1	1
Obstetrics and gynecological surgery	85	90	102	105	105
Occupational medicine	—*	—*	—*	—*	—*
Oncology	0	0	0	0	0
Ophthalmology	24	24	25	30	27
Orthopedic surgery	107	99	111	118	112
Osteopathic manipulative medicine	4	1	1	2	3
Otorhinolaryngology	12	17	16	6	5
Otorhinolaryngology and oro-facial plastic surgery	19	19	18	33	33
Pathology	12	16	15	8	10
Pediatrics	21	26	28	20	21
Proctology	5	5	2	2	4
Psychiatry	4	6	10	9	20
Psychiatry, child	0	0	1	1	0
Public health	—*	—*	—*	—*	0
Radiation oncology	0	2	3	0	1
Radiological imaging	—*	—*	—*	—*	0
Radiology	45	51	53	31	35
Rehabilitation medicine	1	2	2	2	3
Reproductive endorcrinology	—*	—*	—*	0	0
Rheumatology	0	0	0	0	0
Surgery, general	148	148	175	180	188
Surgery, general vascular	—*	—*	—*	1	1
Surgery, neurological	8	9	9	9	5
Surgery, thoracic and cardiovascular	3	4	3	2	0
Surgery, urological	18	20	24	21	17
Totals	995	1,040	1,200	1,245	1,250

*Not applicable.

Source: AOA Department of Education, 1 Aug 1986.

RESIDENTS IN AOA-APPROVED NON-OSTEOPATHIC PROGRAMS, 1986-1987

Specialty areas	Non-osteopathic	Military	Preceptorship	Total
Aerospace medicine	1	2	0	3
Anesthesiology	3	8	0	11
Cardiology	4	0	0	4
Dermatology	3	2	10	15
Diagnostic radiology	0	5	0	5
Emergency medicine	4	2	0	6
Endocrinology	3	0	0	3
Gastroenterology	1	1	0	2
General practice	0	4	0	4
Hematology and oncology	5	0	0	5
Infectious diseases	4	0	0	4
Internal medicine	0	6	0	6
Maternal and fetal medicine	2	0	0	2
Medical diseases of the chest	3	0	0	3
Neonatal medicine	0	0	0	0
Nephrology	3	0	0	3
Neurological surgery	2	0	0	2
Neurology	15	2	0	17
Neuroradiology	1	0	0	1
Nuclear medicine	0	0	0	0
Obstetrics and gynecological surgery	2	10	0	12
Occupational/environmental health	1	0	0	1
Oncology	4	0	0	4
Ophthalmology	2	3	1	6
Orthopedic surgery	1	3	0	4
Otolaryngology	1	1	0	2
Otorhinolaryngology	0	0	0	0
Otorhinolaryngology and oro-facial plastic surgery	0	1	0	1
Pathology	0	1	0	1
Pediatrics	0	5	0	5
Plastic and reconstructive surgery	2	1	0	3
Proctology	0	0	1	1
Psychiatry	21	2	0	23
Psychiatry, child	0	0	0	0
Public health	3	0	0	3
Radiation oncology	2	0	0	2
Radiology	0	2	0	2
Rehabilitation medicine	13	0	0	13
Rheumatology	3	0	0	3
Surgery, general	0	2	0	2
Surgery, thoracic and cardiovascular	6	0	0	6
Surgery, urological	1	1	0	2
Surgery, vascular (general)	1	0	0	1
Totals	117	64	12	193

Source: AOA Department of Education, 1 Aug 1986.

ENROLLMENT IN COLLEGES OF OSTEOPATHIC MEDICINE, 1968-1990

Institution	1968-9	1969-70	1970-1	1971-2	1972-3	1973-4	1974-5	1975-6	1976-7	1977-8	1978-9
Chicago	296	301	305	311	331	354	376	380	381	383	382
Des Moines	338	348	384	394	446	421	494	521	525	530	525
Kansas City	433	446	449	463	487	505	542	577	607	592	616
Kirksville	405	421	428	433	445	461	474	493	480	496	500
Michigan	—	20	42	79	149	181	236	265	283	311	334
New England	—	—	—	—	—	—	—	—	—	—	36
New Jersey	—	—	—	—	—	—	—	—	—	24	52
New York	—	—	—	—	—	—	—	—	—	36	89
Ohio	—	—	—	—	—	—	—	—	24	60	105
Oklahoma	—	—	—	—	—	—	36	91	160	225	225
Pacific	—	—	—	—	—	—	—	—	—	—	36
Philadelphia	407	461	522	572	626	710	755	798	817	810	818
Southeastern	—	—	—	—	—	—	—	—	—	—	—
Texas	—	—	21	52	95	148	190	208	273	271	299
West Virginia	—	—	—	—	—	—	36	77	164	178	203
Totals	1,879	1,997	2,151	2,304	2,579	2,780	3,139	3,410	3,714	3,916	4,220

* Data not available.
Source: AOA Department of Education. Figures beyond 1986-87 are projections.

ABBREVIATIONS

Abbreviations used for colleges of osteopathic medicine in the tables in this section are:

Chicago—Chicago College of Osteopathic Medicine, Chicago, IL
Des Moines—University of Osteopathic Medicine and Health Sciences, College of Osteopathic Medicine and Surgery, Des Moines, IA
Kansas City—University of Health Sciences, College of Osteopathic Medicine, Kansas City, MO
Kirksville—Kirksville College of Osteopathic Medicine, Kirksville, MO
Michigan—Michigan State University, College of Osteopathic Medicine, East Lansing, MI
New England—University of New England College of Osteopathic Medicine, Biddeford, ME
New Jersey—University of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine, Camden, NJ
New York—New York College of Osteopathic Medicine of the New York Institute of Technology, Old Westbury, NY
Ohio—Ohio University College of Osteopathic Medicine, Athens, OH
Oklahoma—Oklahoma College of Osteopathic Medicine and Surgery, Tulsa, OK
Pacific—College of Osteopathic Medicine of the Pacific, Pomona, CA
Philadelphia—Philadelphia College of Osteopathic Medicine, Philadelphia, PA
Southeastern—Southeastern College of Osteopathic Medicine, North Miami Beach, FL
Texas—Texas College of Osteopathic Medicine, Fort Worth, TX
West Virginia—West Virginia School of Osteopathic Medicine, Lewisburg, WV

1979-80	1980-1	1981-2	1982-3	1983-4	1984-5	1985-6	1986-7	1987-8	1988-9	1989-90
386	386	391	395	400	395	398	402	400	400	400
535	544	549	720	714	714	721	733	724	724	724
616	612	621	622	617	620	582	600	620	—*	—*
508	515	513	526	521	531	531	525	523	523	523
342	368	370	407	439	479	495	498	513	500	500
90	162	229	261	280	274	283	286	282	280	280
84	117	139	166	188	209	216	214	224	224	—*
156	231	297	357	421	460	493	515	510	510	510
153	198	245	262	337	347	387	400	385	385	385
231	249	261	260	246	325	326	325	340	340	340
92	161	236	288	332	360	383	402	411	407	407
826	820	822	833	834	832	836	842	831	830	830
—	—	40	100	179	272	327	366	402	403	400
303	330	346	363	387	404	363	380	407	407	—*
222	231	233	227	234	234	238	243	240	240	240
4,544	4,924	5,292	5,787	6,129	6,456	6,579	6,731	6,812	—*	—*

ACTUAL ENROLLMENT IN COLLEGES OF OSTEOPATHIC MEDICINE BY CLASS, 1985-86

College	1st Year	2nd Year	3rd Year	4th Year	Class Total	Actual 1986 Graduates
Chicago	101	96	105	96	398	93
Des Moines	179	182	182	178	721	167
Kansas City	133	159	148	142	582	139
Kirksville	134	125	134	138	531	133
Michigan	125	120	128	122	495	123
New England	70	69	77	67	283	67
New Jersey	56	48	54	58	216	58
New York	133	124	128	108	493	107
Ohio	100	95	105	87	387	81
Oklahoma	82	79	76	89	326	89
Pacific	100	102	100	81	383	81
Philadelphia	208	205	214	209	836	208
Southeastern	100	95	71	61	327	61
Texas	96	87	85	95	363	93
West Virginia	58	58	67	55	238	55
Totals	1,675	1,644	1,674	1,586	6,579	1,555

Source: AOA Department of Education.

RESIDENTS IN AOA-RECOGNIZED NON-OSTEOPATHIC PROGRAMS, 1986-1987

Specialty areas	Non-osteopathic	Military	Preceptorship	Total
Critical care medicine	1	0	0	1
Geriatrics	1	0	0	1
Gynecologic Onclogy	1	0	0	1
Neurobehavior	1	0	0	1
Radiation therapy	1	0	0	1
Totals	5	0	0	5

Source: AOA Department of Education, 1 Aug 1986.

WOMEN IN COLLEGES OF OSTEOPATHIC MEDICINE, 1956-1986

Academic Year	Women Graduates		Total Women Enrolled	
	No.	%	No.	%
1956-57	9	2.0	43	2.3
1957-58	11	2.5	36	1.9
1958-59	19	4.1	38	2.0
1959-60	9	2.1	38	2.0
1960-61	9	1.8	38	2.0
1961-62	6	1.3	43	2.2
1962-63	15	4.0	36	2.3
1963-64	4	1.1	28	1.8
1964-65	10	2.5	38	2.3
1965-66	5	1.4	39	2.3
1966-67	9	2.2	46	2.6
1967-68	13	3.0	48	2.6
1968-69	8	1.9	53	2.8
1969-70	12	2.8	59	3.0
1970-71	11	2.3	61	2.8
1971-72	18	3.7	79	3.4
1972-73	18	2.7	116	4.5
1973-74	17	2.9	181	6.5
1974-75	44	6.3	267	8.5
1975-76	58	7.2	362	10.6
1976-77	84	9.3	472	12.7
1977-78	68	6.8	548	14.0
1978-79	163	16.1	689	16.3
1979-80	192	18.1	837	18.2
1980-81	228	19.3	901	18.3
1981-82	182	16.1	1,108	20.9
1982-83	257	19.3	1,335	22.8
1983-84	293	21.0	1,496	24.2
1984-85	338	22.9	1,696	26.2
1985-86	390	25.0	1,805	27.4

While women have always been enrolled in osteopathic colleges, they did not comprise 10% of the enrolled students until 1975.

As a result of current programs which seek to enroll qualified women and minorities in the colleges, the percentage of women enrolled at osteopathic schools is expected to reach 24.4% by 1989.

Source: Figures before 1981, Report of the Task Force on Graduate Osteopathic Medical Education (Kellogg Report) [THE DO, April 1981 supplement]; figures for 1981-86, AOA YEARBOOK survey of osteopathic colleges.

EXPECTED ENROLLMENT OF WOMEN IN COLLEGES OF OSTEOPATHIC MEDICINE, 1986-87

College	Total student enrollment	Total women enrolled	Percentage of women enrolled	Women in year 1	Women in year 2	Women in year 3	Women in year 4	Total graduates	Women graduates	Percentage of women graduates
Chicago	401	101	25.0	33	24	23	21	98	21	21.0
Des Moines	724	193	27	46	56	58	33	173	33	19.0
Kansas City	581	130	22	34	32	34	30	139	30	22.0
Kirksville	527	99	18	31	29	23	16	131	16	12.0
Michigan*	499	176	35	44	61	41	30	109	30	28.0
New England*	287	86	30	25	18	22	21	72	21	29.0
New Jersey*	211	67	32	11	25	19	12	54	12	22.0
New York*	513	166	32	35	52	42	37	123	37	30.0
Ohio	384	108	29	22	28	29	29	93	27	29.0
Oklahoma*	314	90	29	20	28	22	20	76	20	26.0
Pacific	410	119	29	36	28	27	28	100	28	28.0
Philadelphia	817	259	32	69	63	59	68	202	68	34.0
Southeastern	376	85	23	22	23	23	17	73	17	23.0
Texas*	381	111	29.1	26	29	27	29	86	29	33.0
West Virginia	241	67	26.0	22	13	15	17	64	17	38.0
Totals	6,666	1,857	27.8	476	509	464	408	1,593	406	25.4

* Estimated.
Source: AOA YEARBOOK survey of osteopathic colleges, July 1986.

EXPECTED ENROLLMENT OF ETHNIC MINORITIES IN COLLEGES OF OSTEOPATHIC MEDICINE, 1986-87

College	Total student enrollment	Total ethnic minority enrollment	Percentage of ethnic minority enrollment	Ethnic minorities in year 1	Ethnic minorities in year 2	Ethnic minorities in year 3	Ethnic minorities in year 4	Total graduates	Ethnic minority graduates	Percentage of ethnic minority graduates
Chicago	401	36	9.0	12	7	5	12	98	12	12
Des Moines	724	49	7.0	13	18	12	6	173	6	3.0
Kansas City	581	28	5.0	10	7	7	4	139	4	3.0
Kirksville	527	24	4.5	5	11	2	6	131	6	4.5
Michigan*	499	71	14.0	8	41	10	12	109	12	11.0
New England*	287	13	4.5	5	5	3	N/A	72	N/A	N/A
New Jersey*	215	27	13.0	8	4	8	7	54	7	13.0
New York*	513	46	9.0	12	15	13	6	123	6	5.0
Ohio	384	37	10.0	9	12	10	6	93	6	6.0
Oklahoma*	314	45	14.0	17	9	11	8	76	8	11.0
Pacific	410	58	14.0	16	15	16	11	100	11	11.0
Philadelphia	817	30	3.7	10	6	7	7	202	7	3.5
Southeastern	376	50	13.0	18	16	9	7	73	7	10.0
Texas*	381	44	11.5	12	18	12	7	86	7	8.1
West Virginia	241	20	8.0	3	7	4	6	64	6	9.3
Totals	6,670	578	8.6	158	191	129	N/A	1,593	N/A	N/A

* Estimated.
Source: AOA YEARBOOK survey of osteopathic colleges, July 1986.

OSTEOPATHIC HOSPITALS BY STATE

State	Number of osteopathic hospitals	Number of AOA-accredited hospitals	Number of hospitals with AOA-approved postdoctoral training programs	Total number of beds *	Total number of medical/ surgical beds	Total number of special care beds	Total number of bassinets	Number of hospitals with 0-24 beds *†	Number of hospitals with 25-99 beds *	Number of hospitals with 100-199 beds *	Number of hospitals with 200-299 beds *	Number of hospitals with 300 or more beds *
Arizona	6	6	3	527	524	3	20	0	3	1	1	0
California	9	4	3	968	839	129	59	1	4	3	1	0
Colorado	4	4	2	369	350	19	26	0	2	2	0	0
Delaware	1	1	1	97	97	0	0	0	1	0	0	0
Florida	15	14	12	2,517	2,449	68	40	0	1	11	3	1
Georgia	1	1	1	146	146	0	10	0	0	1	0	0
Illinois	3	2	1	622	622	0	32	0	0	1	2	0
Indiana	3	3	2	261	256	5	19	0	1	2	0	0
Iowa	3	2	2	425	367	58	22	0	1	1	1	0
Kansas	2	1	1	162	162	0	11	0	1	1	0	0
Maine	3	3	2	298	260	38	22	0	2	1	0	0
Massachusetts	1	1	1	80	80	0	0	0	1	0	0	0
Michigan	36	30	19	5,388	5,091	297	396	0	13	7	8	5
Missouri	22	13	9	2,804	2,613	191	225	1	8	10	2	1
New Jersey	6	6	6	1,014	1,002	12	42	0	1	2	3	0
New Mexico	2	1	1	145	145	0	18	0	1	1	0	0
New York	5	5	3	1,256	1,256	0	28	0	0	1	3	1
Ohio	20	18	11	3,414	3,235	179	280	0	6	5	7	2
Oklahoma	6	5	3	925	856	69	28	0	3	2	0	1
Oregon	2	1	1	123	123	0	12	1	0	1	0	0
Pennsylvania	17	17	15	2,551	2,451	100	179	0	3	10	4	0
Rhode Island	1	1	1	80	80	0	0	0	1	0	0	0
South Dakota	1	0	0	121	37	84	9	0	0	1	0	0
Tennessee	4	0	0	98	54	44	8	0	3	0	0	0
Texas	30	12	7	2,749	2,660	89	176	1	17	8	2	1
Washington	4	3	1	239	239	0	18	0	4	0	0	0
West Virginia	3	1	0	106	106	0	0	1	2	0	0	0
Wisconsin	3	3	3	413	413	0	17	0	0	3	0	0
Totals	213	158	111	27,898	26,513	1,385	1,697	5	79	75	37	12

* Does not include bassinets.
† AOA accreditation requires a minimum of 25 adult and pediatric beds.
Source: AOA YEARBOOK survey of osteopathic hospitals, June 1986.